Panel Discussion: Staff and User Technical Training

1 he issue of **training end-users** and center staff **in the effective utilization** of Cray Research computers is a **constant**, on-going process at **most** all **sites Problems** such as training **materials**, class **frequency**, **videos**, and site- **specific information** are **very** important components in this area. **Panel** members **will offer** a varied approach to technical training, **and** CRI **will present** possible solutions as **well**, The **audience will** be **encouraged to** participate **by** asking questions and sharing experiences **and** suggestions.

Panel Member: Barbara Horner- **Miller**
                         Jet Propulsion) Laboratory
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                         Pasaden, California

Outline **of Assumed** Comments Based on Abstract:

JPL does not have **adequate training** credits under **curt** ent contr act with Cray Research, Inc. (CRI **) to** hire them **to** teach classes in the Pasadena area. The cur **rent** number **of** training **credits** given were 50. **Under terms of** the **Y-** MP2E **contract**, local classes **must be** 5 **days** in **duration and** have **a** minimum **of 10** students. Thus one class **in Pasadena** uses **all training cr** edits received under the contr act, **Nor** is there **adequate** training funding available **to pay** Cray to teach a local **class**, given the charges **of** $200/day/student.

CRI tr aining credits **are** used **to send User Supper t staff to** the Eagan training **site for** classes. **In the past our** philosophy has **been to** send only one person per **class (except for the** System **Administration** class where **we sent two),** '1 his **allowed** us to get the most **varied** knowledge **from our training credits and**, as it turned out, **we wer** e able to **accommodate** the **personal requests of** the staff under this **policy.**

CRI **Classes attended** in the **last 16** months: UNICOS System Administration; UNICOS **System Installation** and Tuning; System Suppor t 1 ools; CF '/-/ **Parallel Processing; Advanced** CF 77 **Features and** Optimization; CF '/-/ and **Standard (:** F eatures and Optimization; UNICOS Functional **Overview. W e** have **or** dered and begun **viewing** UNICOS '/.0 '1 r aining '1 apes (entire group).

All consultants will take MPP Emulator training in **next 6** months since **we will** be in Center **of** [xcellence **agreement. 1** has **to** date.

User 1 raining is done **in-house or** under **contract** with SDSC. SISC offers two classes **currently to our** users: Introduction to UNICOS **(very** infrequently) and f ortran Vectorization **and** Optimization (3 to 4 **times/year).** Each is **a** full day class given in a PC **or Macintosh** class **room (1 2** "terminals" + **1 with** overhead display for the instructor). **We** have **requested an** autotasking/microtasking **class** from SDSC and they **are** considering the **request. We may offer** the UNICOS '/,0 **training** tapes to users depending **on** evaluation by User Support **staff. We are** considering **requesting** GSFC **or NAS to** present a class **of inter est to our users on** their **systems this year.**

Walt Brainerd **gave** 4 **seminars** on Fortran 90 in a single day **last** month: **Overview of F** ortran 90; Array Processing; **Modules; Pointers,** He **may be** invited back **later for hands-on classes of** 4- **day duration, We are waiting until** CRI has **its** Fortran 90 compiler **available or close,**

Other **"user training":** Seminar **series on wor k** done elsewhere on supercomputers. 4- **6/year'**